

## **ABSTRACT**

The present invention is directed to a filter cleaning device, in particular, diesel particulate filters. In one embodiment, the device comprises a source of high pressure fluid and means to transport the fluid to a nozzle or nozzles; an  
5 actuator for moving the nozzles; a controller with logic for instructing the actuator to automatically move the nozzle or nozzles across the surface of the filter; a collection device and suction device downstream of the filter; and ducting to transport the fluid between parts of the system. In one embodiment, a second collection device is used downstream of the suction device to provide  
10 additional particulate removal. There are three methods proposed for providing high pressure cleaning fluid to the filter face: 1) rotating the filter and rotating the jet about an axis outside of the filter; 2) moving a nozzle in two perpendicular directions (*i.e.*, x-y); and 3) rotating a rectangular nozzle about the central axis of the filter.